

In this Louis XVI room the Concealed Type Convector with its ornate Empire design grille pleasingly reflects the spirit of the period furnishings.



Grille and framed lower opening, attractively finished in ivory, blend perfectly with the ivory wall treatment.

Gold-plated grille harmonizes with the period furnishings, its color enhanced by the ivory wall treatment.



Beauty

IN

MODINE

CONCEALED RADIATION

Bulletin 237-B

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MODINE MANUFACTURING COMPANY, RACINE, WIS.



With Modine's smart Modern Venetian Grille, the Modine Wall Cabinets conform in a most pleasing manner to the modern trend shown in office appointments



For architect-designed buildings,
CONVECTORS with enclosures and grilles
that HARMONIZE with ROOM INTERIORS

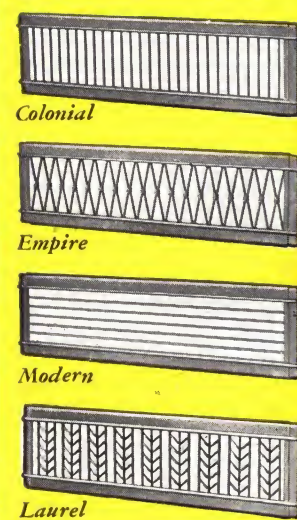
- Truly beautiful designs . . . embodying a new idea of styling . . . have been created for the new Modine Concealed Heater enclosures and grilles, by a nationally known furniture stylist.
- The virtual custom-built flexibility of grille design . . . *patented and exclusively Modine* . . . allows the architect new and individual freedom of expression. By means of variations and combinations of the four elementary grille designs (shown below) he may *at no extra cost* choose a grille to harmonize with any style, period, or special requirement, of the interior appointments of the finest homes, offices, hotels, or public buildings.
- Modine grilles are die castings having actual weight and depth. Being non-corrosive, their beauty may be still further enhanced by a plating appropriate to the style or period of the interior, and the design of the grille used. *At slight extra cost* any of Modine's concealed heater grilles may be supplied in Colonial Brass, Antique Silver, Statuary Bronze, 24K. Gold, or Polished Chrome plated finishes.

FOUR ELEMENTARY GRILLE DESIGNS

The number of grilles which may be created through the combination of the four elementary grille designs is limited only by the versatility of the architect or the requirements of the individual room. For example, the Modern Venetian grille of the Wall Cabinet Convector shown at top of page is a combination of the elementary designs, Modern and Laurel. The Colonial Classic upper grille of the Floor Cabinet Heater, shown at upper left, is a combination of the Colonial and Laurel. Floor Cabinet Convector at lower left is equipped with Modern grilles. Unless otherwise specified Modine Convectors will be furnished with Colonial grille and framed lower opening (except wall cabinet type which requires no bottom grille).

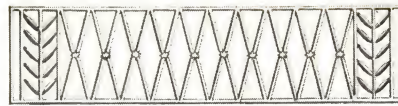
FOUR TYPES CONVECTOR ENCLOSURES

Four Modine Convector Enclosure Types are available—*Concealed* (shown on preceding page); *Wall Cabinet* (shown at top of this page); *Floor Cabinet* (shown in two cuts at left); and *Recessed* (shown on page 5). All enclosures are planned with an eye to color treatment adaptability. Rails and stiles have been put on different levels from each other and from main panels, so that color treatment may be effectively and inexpensively applied.

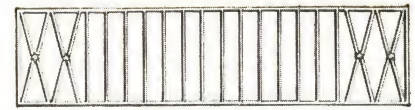




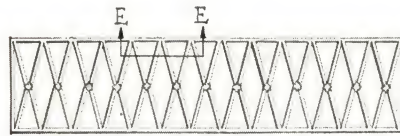
COLONIAL



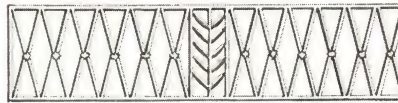
EMPIRE CLASSIC



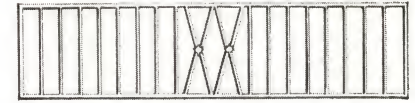
REGENCY CLASSIC



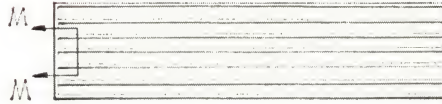
EMPIRE



EMPIRE MEDALLION



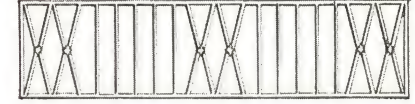
REGENCY MEDALLION



MODERN



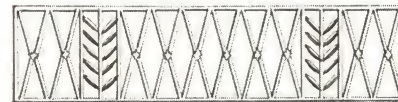
EMPIRE VENETIAN



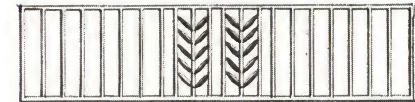
REGENCY VENETIAN



LAUREL



EMPIRE LAUREL



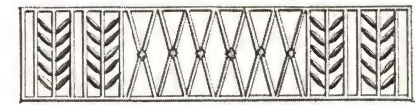
COLONIAL DUAL MEDALLION



COLONIAL CLASSIC



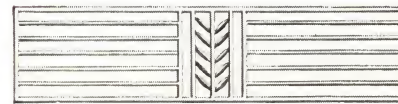
MODERN CLASSIC



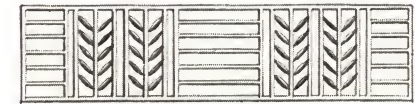
EMPIRE DUAL CLASSIC



COLONIAL MEDALLION



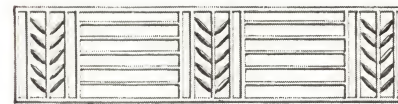
MODERN MEDALLION



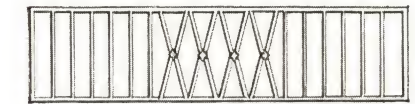
MODERN DUAL LAUREL



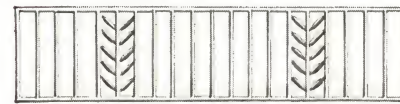
COLONIAL VENETIAN



MODERN VENETIAN



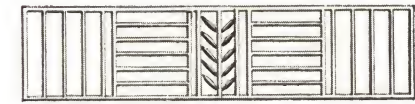
REGENCY DUAL MEDALLION



COLONIAL LAUREL



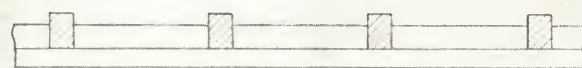
MODERN LAUREL



BASKET-WEAVE MEDALLION

Note: The Basket-Weave Medallion and the Modern Dual Laurel cannot be furnished in a grille less than 22½ inches in length.

TRUE CROSS SECTIONS OF CAST GRILLES TO ACTUAL SCALE



SECTION-C-C



SECTION-E-E



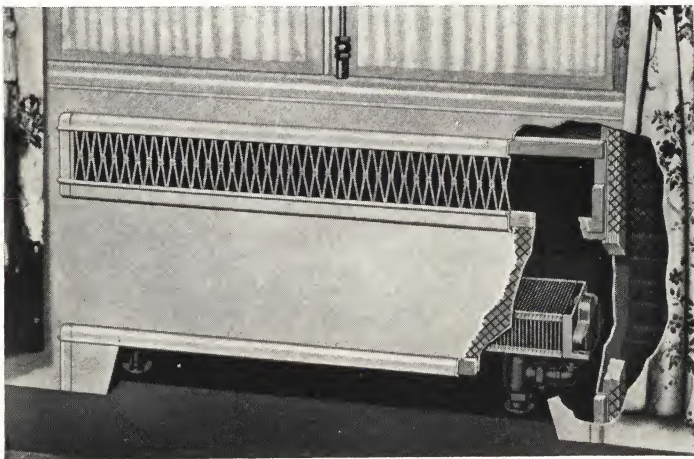
SECTION-M-M



SECTION-L-L

THE MODINE FULLY CONCEALED TYPE CONVECTOR

The Modine Concealed Type Convector, illustrated on the front cover, is the truest concealed heater obtainable. As the front cover illustration clearly shows, the only parts which are visible are the grilles (or lower framed opening). All other parts of the convector assembly are installed in the wall behind the plaster.



Cut-away view of the Concealed Convector

Only with a copper convector can this degree of concealment be safely obtained—because only with a copper convector can a concealed installation be made in such a manner that the heating unit itself can be removed without disturbing the wall or its finish.

The Concealed type convector consists of a Modine copper heating unit, a steel enclosure and its separate front sheet for housing the

heating unit and designed for installation in the wall behind the plaster, and two cast grilles—one for admission of room air, the other for delivery of heated air.

Installation is quickly and easily accomplished. In the earlier construction stages of a building, a recess is left in the wall which is of a depth, length and height to properly receive the convector assembly. The steel enclosure is placed into the recess and nailed through each side to the wood studding with which this recess is customarily framed. The Modine copper heating unit is then placed within the enclosure and the proper piping and fittings brought up to the unit so that the bottom of the unit is not over six inches above the floor.

After the piping has been completed, the plaster backing sheet is placed across the open face of the enclosure and fitted so that it covers the wall recess and leaves horizontal openings at the top and bottom of the enclosure. These openings, framed with wood ground-strips, receive the grilles.

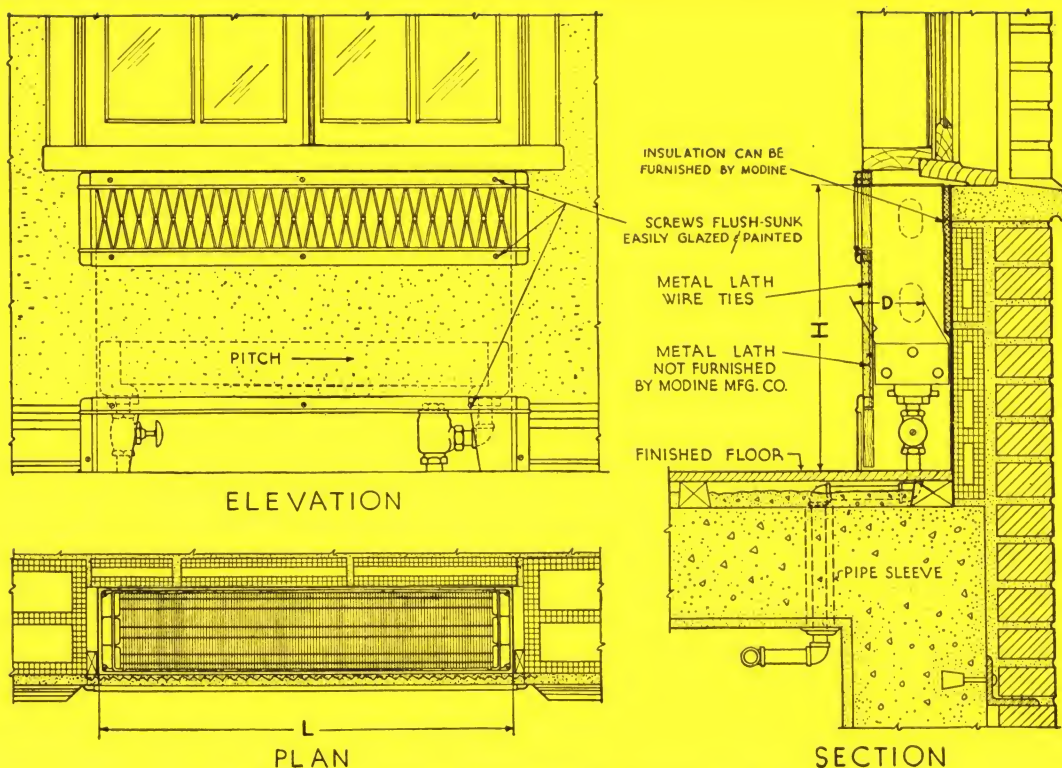
After the front is in place, metal lath and plaster can be carried across the face of the enclosure front. Wire ties spot welded to the front serve as anchors for the metal lath, and the wood ground strips (furnished by Modine) framing the grille openings serve as plaster stops.

After plastering is completed, the grilles are installed on the ground strips by means of wood screws inserted through flush-sunk holes along the perimeter of the grille frames.

Unless another grille combination is specified, the Concealed Convector will be regularly furnished with a Colonial upper grille and a framed lower opening.

For capacities and engineering data, see pages 8-12.

INSTALLATION DIAGRAM—CONCEALED CONVECTOR



For explanation of "L," "H" and "D" see Capacity Table, page 8.

THE MODINE RECESSED TYPE CONVECTOR

The Modine Recessed Convector is also an in-the-wall type and has been developed to serve the same general application as the Concealed type. It, however, does not require plastering across its face and it occupies less space in the wall than the Concealed type.

With less depth of wall recess, a convector unit of greater heating capacity can be employed. This is possible because the front extends about $1\frac{1}{2}$ " from the wall. Therefore, although the heating unit may be $1\frac{1}{2}$ " deeper than the rear half of the enclosure, this difference is accounted for by the slight projection of the front from the wall. This frequently results in lower installation costs where only one convector need be placed in a room where two would otherwise be necessary.

Inasmuch as convectors are properly placed beneath windows, the projection forward gives a pleasing panelling effect and generally just equals the depth of baseboard and of window sill forward of plaster line. The Modine Recessed Convector front trims itself; no moulding is required.

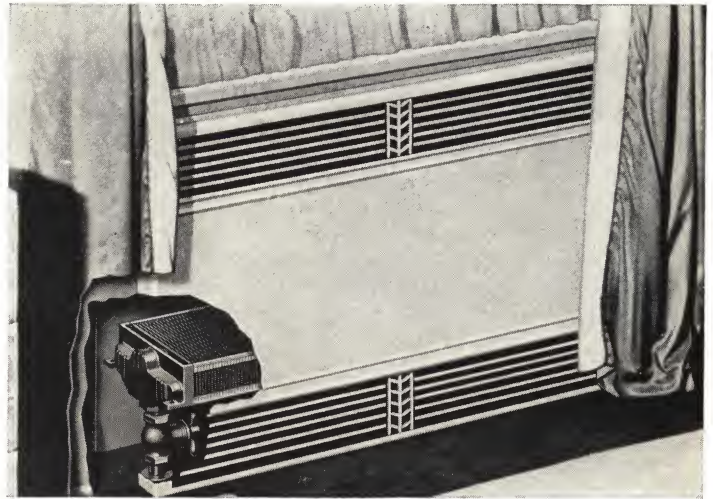
The Recessed type convector consists of a Modine copper heating unit, a steel enclosure for housing the heating unit in the wall, and a heavy steel front that completely covers the enclosure and the wall recess in which it is installed, overlapping plaster line with a box flange and self-trimming. The cast outlet and inlet grilles are integral parts of the enclosure front.

Since the enclosure is flanged along the front edge of the top and along the sides so that it does overlap the edges of the wall recess left by the general contractor, the Recessed type enclosure may be installed either before or after the plastering has been completed. It is permanently secured in place by nailing it to the studding that frames the wall recess, using as the nailing surface the flanged edges of the top and sides of enclosure rear half.

The copper heating unit is then placed in the enclosure and connected according to the character of the heating system.

Fastening the front of the enclosure in position completes the installation. This front has flush-sunk screw holes in the flanged faces

of the rear half enclosure. Additional retaining screws across the top are concealed behind outlet grille but are easily accessible through this grille. Screws holding front pass on through flanges of rear half of enclosure and into framing, giving secure support to front. All necessary screws are furnished by Modine.



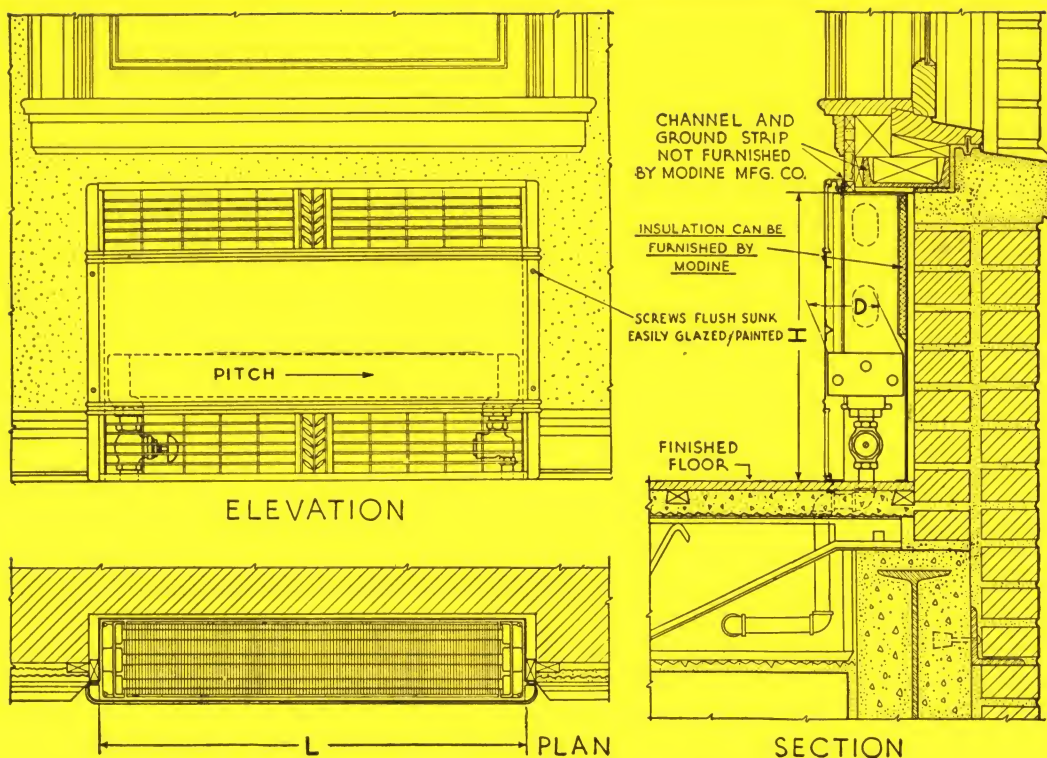
Cut-away view of the Recessed Convector

Painting with any desired color over the prime coat, which is applied at the factory, finishes the job.

Unless another grille combination is specified, the Recessed Convector will be regularly furnished with a Colonial upper grille and a framed lower opening.

For capacities and engineering data, see pages 8-12.

INSTALLATION DIAGRAM—RECESSED CONVECTOR



For explanation of "L," "H" and "D" see Capacity Table, page 8.

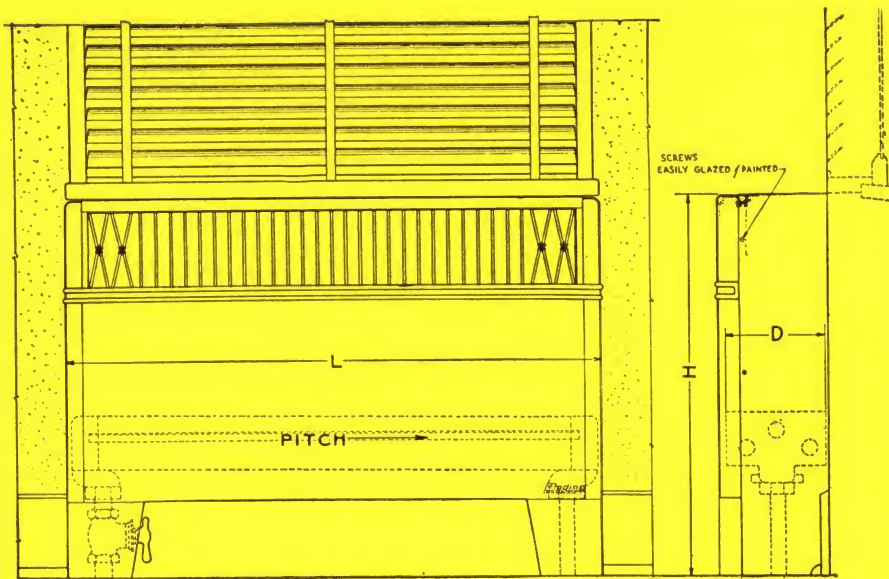
THE MODINE FLOOR CABINET TYPE CONVECTOR

The Modine Floor Cabinet Convector has a wide range of applications in existing buildings as well as in contemplated construction. As it is primarily designed for open installation in a room—against a wall rather than in it—this convector is often specified where modernizing is being done and it is not desired to disturb existing wall construction. As will be illustrated later, the Floor Cabinet is nevertheless suitable for partial recessing in a wall and often answers the need for a semi-concealed installation which must deliver greater capacity than could be obtained from a Concealed or Recessed type occupying the same wall area.

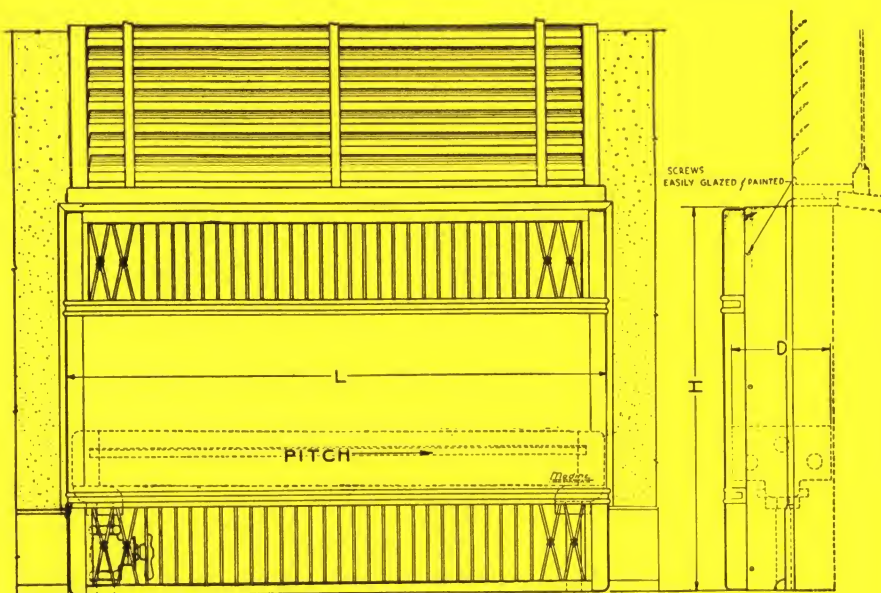
The Floor Cabinet convector has three parts to its assembly—the copper heating unit, the rear enclosure half, and the front enclosure half or front which contains the outlet grille. An inlet grille is not often used with the Floor Cabinet inasmuch as the general contour of the lower part of the front forms a natural inlet for the incoming

air. It can be furnished, however, and is particularly recommended where the fully Moderne effect is wanted.

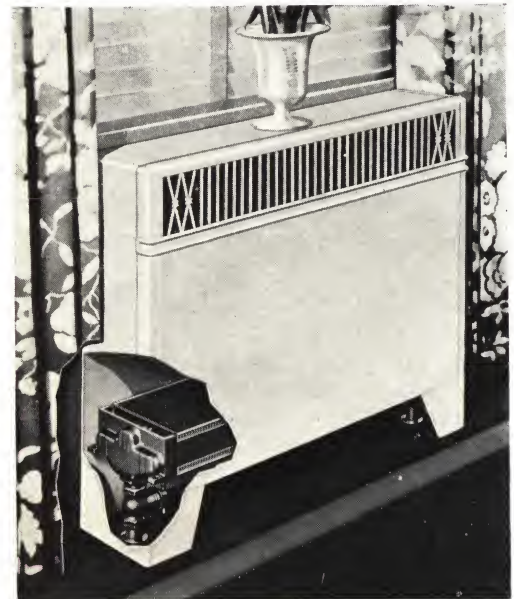
Installation of a Floor Cabinet convector is extremely simple. The enclosure rear half is first set in the desired location. The copper heating unit is then brought within the enclosure and connected with the steam or hot water piping that has been installed to serve it. The heating unit should not be over 6 in. above the floor. This done, the front is attached to the enclosure by screws inserted through several holes located in the sides which line up with similar holes on the sides of the rear half of the enclosure. Further fastening is accomplished through joining, by means of screws, a drilled flange welded to the underside of the beveled top of the front to a drilled flange welded to the underside of the enclosure top. Access to these screws is had through the upper grille. With the front secured in place the cabinet is ready for finish painting.



Installation Diagram—Completely Exposed Floor Cabinet Convector.



Installation Diagram—Partially Recessed Floor Cabinet Convector.
For explanation of "L," "H" and "D" see Capacity Table, page 8.



Cut-away view of completely exposed Floor Cabinet Convector

When the Floor Cabinet convector is to be installed partially recessed in a wall, the building contractor provides a wall opening of a depth that equals the distance to which it is desired to recess the cabinet. The enclosure should not be recessed so deeply, however, that the junction line between enclosure and front is concealed.

When installing a Floor Cabinet in a recess it is always advisable to allow a small opening—approximately $\frac{1}{8}$ in.—between the enclosure and the plaster line. This will provide allowance for any expansion of the enclosure that might result from heating. This clearance space should then be trimmed by an appropriate moulding so as to present a finished appearance. (See Diagram at left.)

By recessing Floor Cabinets in this way it is possible to install a size, or two sizes, deeper heating unit without increasing the dimensions of the wall recess.

For capacities and engineering data, see pages 8-12.

On page 3 some of many available grilles are illustrated. All of these grilles are available for the floor cabinet. Unless some other grille combination is specified, however, this convector will be furnished with a Colonial upper grille and a framed lower opening. The Floor Cabinet convector cannot be furnished with top (horizontal) outlet grille except where the convector is $7\frac{3}{8}$ in. or greater in depth.

THE MODINE WALL CABINET TYPE CONVECTOR

The Modine Wall Cabinet Convector, illustrated on top of page 2 and on this page, has found its widest range of application in institutional and commercial fields. Designed for installation on the wall, it is an ideal type for offices, stores and school rooms where recessing is not practicable and easy cleaning of floors is demanded.

This type of convector fits in unusually well where modernizing is being done and where it is not desirable to make changes in the existing building construction. The general design of the Wall Cabinet lends itself particularly well to color treatment with the result that the Wall Cabinet unit can be made to harmonize with other appointments in the room, or stand out frankly in a color of its own.

The Wall Cabinet assembly consists of an enclosure, copper heating unit and front, the latter containing the outlet grille. Obviously with the Wall Cabinet type no lower grille is necessary.

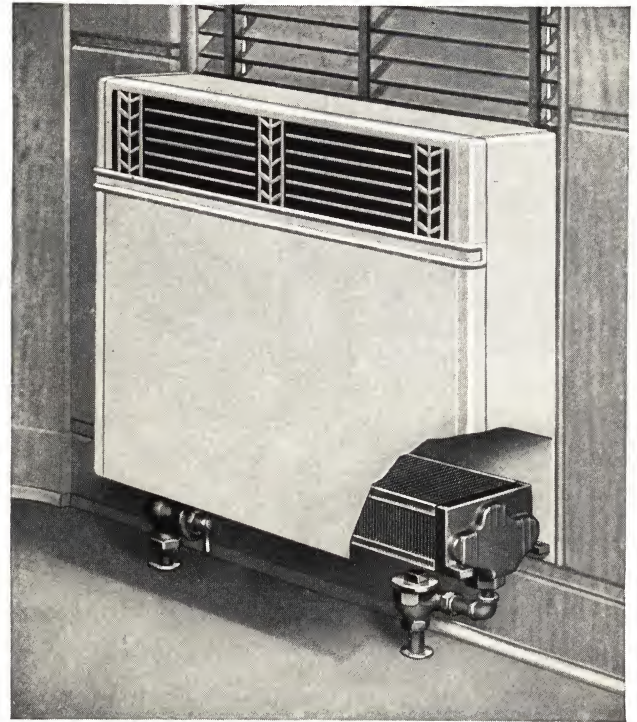
Before actually installing a Wall Cabinet Convector it is advisable to first place the enclosure at the desired location on the wall and then mark on the inside of the enclosure the places in which the screw fastenings are to be inserted. Holes can then be punched in the light metal covering perforated support strip. The enclosure is next fastened to the wall by means of wood-screws driven through the plaster to the wall studding.

The copper heating unit is then placed within the enclosure and connected with the steam or hot water piping that has been installed to serve the unit. The final installation should provide for bottom of heating unit being level with bottom of enclosure.

The front is then fastened to the enclosure by means of screws inserted through several holes located in the sides. Further fastening is accomplished by means of screws, to which access is had through the upper grille. With the front securely in place, the cabinet is ready to receive its final painting.

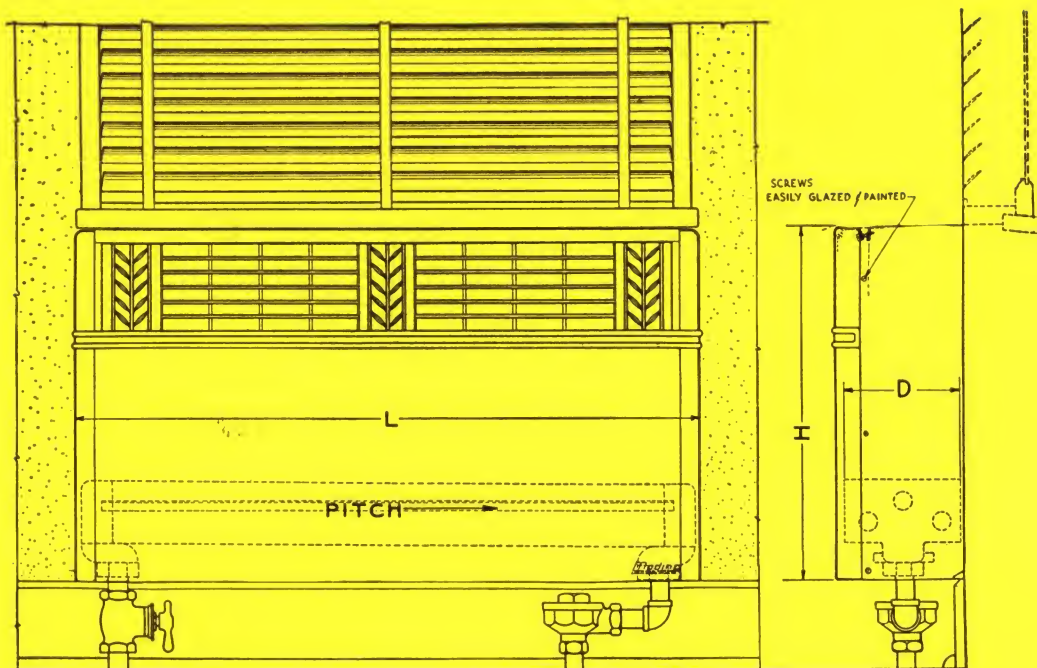
For capacities and engineering data, see pages 8-12.

Unless otherwise specified, the Wall Cabinet Convector will be regularly furnished with a Colonial grille as the air outlet.



Cut-away view of Wall Cabinet Convector

INSTALLATION DIAGRAM—WALL CABINET CONVECTOR



For explanation of "L," "H" and "D" see Capacity Table, page 8.

Note: The wall cabinet convector cannot be furnished with top (horizontal) outlet grille except where the convector is 7 $\frac{3}{8}$ in. or greater in depth.

STEAM CAPACITIES*

CONVECTOR MNFRS. ASSN. CERTIFIED RATINGS BASED ON STANDARD CODE OF A.S.H.&V.E.

At 240 Btu. per Sq. Ft. Based on 215° Steam, 65° Entering Air.
Guaranteed for maximum pressure 50 lbs. saturated steam.

D = Depth of heat- ing unit in inches	†L = Length of encl- ure in inches	H = Height of Enclosure in inches for Concealed, Recessed, Floor Cabinet. See Diagrams at right												
		18	20	22	24	26	28	30	32	36	40	44	50*	70*
		H = Height of Enclosure in inches for Wall Cabinet. See Diagrams at right.												
		12 1/4	14 1/4	16 1/4	18 1/4	20 1/4	22 1/4	24 1/4	26 1/4	30 1/4	34 1/4	38 1/4		
		Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.	Capac- ity Sq. Ft.
‡ 3 5/8	15	8.2	8.9	9.5	10.0	10.4	10.8	11.1	11.5	11.8	12.2	12.5	12.9	14.4
	17 1/2	10.0	10.8	11.5	12.1	12.6	13.0	13.4	13.8	14.3	14.6	15.1	15.7	17.3
	20	11.8	12.6	13.3	14.2	14.8	15.2	15.8	16.2	16.7	17.2	17.7	18.3	20.4
	22 1/2	13.3	14.5	15.3	16.2	17.0	17.5	18.1	18.5	19.1	19.7	20.3	21.0	23.4
	25	14.9	16.4	17.3	18.3	19.1	19.7	20.4	20.9	21.6	22.3	22.9	23.7	26.4
	30	18.5	20.1	21.2	22.4	23.5	24.3	25.0	25.6	26.6	27.3	28.0	29.2	32.3
	35	22.0	23.7	25.2	26.6	27.8	28.8	29.6	30.4	31.4	32.3	33.3	34.4	38.3
	40	25.3	27.5	29.1	30.8	32.1	33.2	34.2	35.1	36.3	37.4	38.4	39.9	44.3
	45	28.8	31.5	33.0	34.9	36.4	37.7	38.9	39.9	41.1	42.5	43.7	45.4	50.4
	50	32.3	34.9	37.0	39.1	40.9	42.2	43.5	44.6	46.2	47.5	48.9	50.7	56.3
	55	35.6	38.5	40.9	43.2	45.1	46.7	48.1	49.4	50.9	52.6	54.1	56.2	62.4
	60	39.1	42.4	44.9	47.4	49.5	51.1	52.6	54.1	56.0	57.9	59.3	61.5	68.4
5 1/2	15	11.6	12.5	13.3	14.0	14.6	15.1	15.5	15.9	16.5	17.1	17.7	18.4	20.4
	17 1/2	14.0	15.1	16.0	16.9	17.6	18.2	18.8	19.2	20.0	20.6	21.3	22.2	24.7
	20	16.4	17.7	18.8	19.8	20.6	21.4	22.0	22.5	23.4	24.2	25.0	26.0	28.9
	22 1/2	18.8	20.3	21.6	22.7	23.7	24.5	25.2	25.8	26.9	27.7	28.7	29.8	33.2
	25	21.3	22.9	24.3	25.6	26.8	27.6	28.5	29.2	30.3	31.2	32.4	33.7	37.5
	30	26.1	28.2	29.8	31.4	32.8	33.9	35.0	35.8	37.2	38.4	39.8	41.3	46.0
	35	31.0	33.4	35.4	37.2	38.9	40.2	41.5	42.4	44.1	45.5	47.0	48.9	54.6
	40	35.3	38.6	40.9	43.0	45.0	46.5	48.0	49.0	50.9	52.6	54.4	56.6	63.1
	45	40.6	43.8	46.4	48.9	51.0	52.9	54.4	55.6	57.9	59.6	61.8	64.2	71.6
	50	45.4	49.0	52.0	54.6	57.2	59.0	60.8	62.3	64.6	66.8	69.0	71.9	80.2
	55	50.3	54.2	57.5	60.6	63.1	65.3	67.3	68.9	71.5	73.8	76.5	79.5	88.7
	60	55.0	59.4	63.0	66.3	69.3	71.7	73.8	75.5	78.4	81.0	83.9	87.2	97.3
7 3/8	15	14.1	15.1	16.0	16.8	17.5	18.0	18.6	19.1	20.0	20.6	21.3	22.2	24.7
	17 1/2	17.0	18.3	19.4	20.3	21.1	21.8	22.5	23.1	24.1	24.8	25.8	26.8	29.8
	20	19.9	21.4	22.7	23.6	24.8	25.6	26.3	27.1	28.3	29.2	30.2	31.4	35.0
	22 1/2	22.8	24.6	26.0	27.2	28.4	29.3	30.2	31.1	32.4	33.4	34.6	36.0	40.6
	25	25.8	27.7	29.4	30.8	32.0	33.0	34.1	35.1	36.6	37.7	39.0	40.7	45.3
	30	31.6	34.0	36.1	37.6	39.3	40.5	41.9	43.0	44.9	46.3	47.9	49.9	55.5
	35	37.6	40.3	42.7	44.7	46.6	48.0	49.6	50.9	53.2	54.8	56.7	59.2	65.9
	40	43.4	46.6	49.3	51.7	53.9	55.5	57.4	58.9	61.4	63.4	65.6	68.3	76.1
	45	49.2	52.9	56.1	58.5	61.1	63.0	65.1	66.8	69.8	71.8	74.5	77.5	86.3
	50	55.1	59.1	62.7	65.6	68.3	70.4	72.8	74.8	78.0	80.4	83.2	86.8	96.7
	55	60.9	65.5	69.3	72.6	75.6	78.1	80.6	82.7	86.5	89.0	92.2	96.0	106.9
	60	66.8	71.7	76.0	79.5	82.8	85.5	88.2	90.6	94.5	97.5	101.0	105.0	117.3
9 1/4	15	16.2	17.4	18.4	19.2	20.0	20.7	21.4	21.9	23.0	23.8	24.6	25.7	28.7
	17 1/2	19.5	20.9	22.2	23.2	24.1	25.0	26.0	26.5	27.7	28.7	29.8	30.9	34.7
	20	22.9	24.6	25.9	27.2	28.3	29.3	30.2	31.1	32.5	33.7	34.8	36.3	40.6
	22 1/2	26.3	28.2	29.8	31.2	32.4	33.5	34.6	35.6	37.2	38.6	40.0	41.6	46.6
	25	29.6	31.8	33.6	35.2	36.6	37.8	39.0	40.2	42.0	43.5	45.1	46.9	52.5
	30	36.3	39.0	41.2	43.1	44.8	46.4	47.9	49.2	51.5	53.4	55.3	57.6	64.4
	35	43.1	46.2	48.8	51.1	53.1	55.0	56.7	58.4	61.0	63.3	65.5	68.3	76.4
	40	49.7	53.3	56.4	59.1	61.3	63.6	65.5	67.4	70.5	73.2	75.8	78.8	88.3
	45	56.5	60.6	64.1	67.0	69.7	72.0	74.3	76.5	80.0	83.1	86.0	89.5	100.1
	50	63.1	67.7	71.6	74.9	77.9	80.5	83.2	85.6	89.6	92.8	96.1	100.0	112.1
	55	69.8	75.0	79.3	82.9	86.2	89.2	92.0	94.7	99.2	102.8	106.4	110.6	123.9
	60	76.6	82.2	86.9	90.9	94.7	97.8	101.0	103.8	108.8	112.8	116.8	121.4	135.9
11 1/8	15	18.4	19.8	20.8	21.8	22.6	23.3	24.0	24.6	25.6	26.5	27.6	28.8	32.0
	17 1/2	22.2	23.8	25.1	26.3	27.3	28.1	28.9	29.7	31.0	32.0	33.3	34.7	38.6
	20	26.0	27.9	29.4	30.8	32.0	33.0	33.9	34.8	36.2	37.5	39.0	40.6	45.3
	22 1/2	29.8	32.0	33.7	35.2	36.6	37.7	38.8	39.8	41.5	43.0	44.6	46.6	51.8
	25	33.6	36.0	38.0	39.7	41.3	42.7	43.9	45.0	46.9	48.5	50.3	52.6	58.5
	30	41.2	44.2	46.6	48.7	50.7	52.2	53.8	55.1	57.5	59.3	61.8	64.5	71.7
	35	48.7	52.5	55.2	57.7	60.0	61.9	63.6	65.3	68.0	70.3	73.1	76.3	84.9
	40	56.4	60.5	63.8	66.6	69.3	71.4	73.5	75.4	78.6	81.3	84.6	88.3	98.1
	45	63.9	68.7	72.5	75.7	78.7	81.1	83.5	85.5	89.2	92.3	96.1	100.1	111.1
	50	71.5	76.8	81.0	84.7	88.1	90.8	93.4	95.7	100.0	103.2	107.4	112.0	124.5
	55	79.1	85.0	89.6	93.7	97.4	100.2	103.3	105.9	110.5	114.2	118.8	123.9	138.4
	60	86.6	93.2	98.2	102.5	106.8	110.0	113.1	116.1	121.1	125.4	130.3	135.9	150.9

Recessed and Floor Cabinet Enclosures are available up to 44-in. height only; Wall Cabinet Enclosures up to 38 1/4" height only.

†Net length of heating unit only is L—1/2".

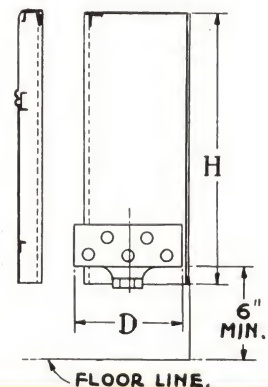
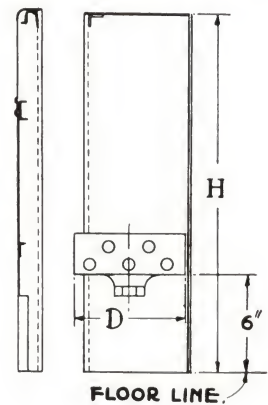
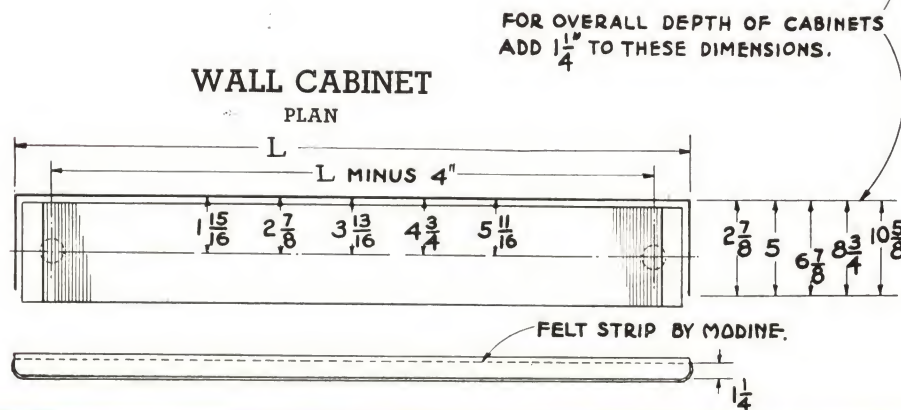
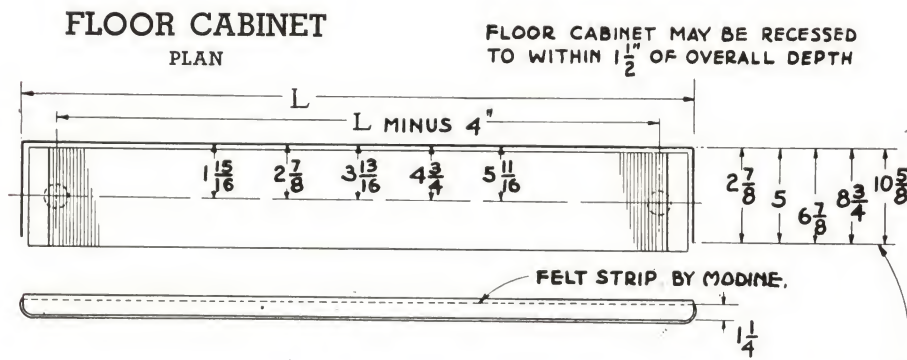
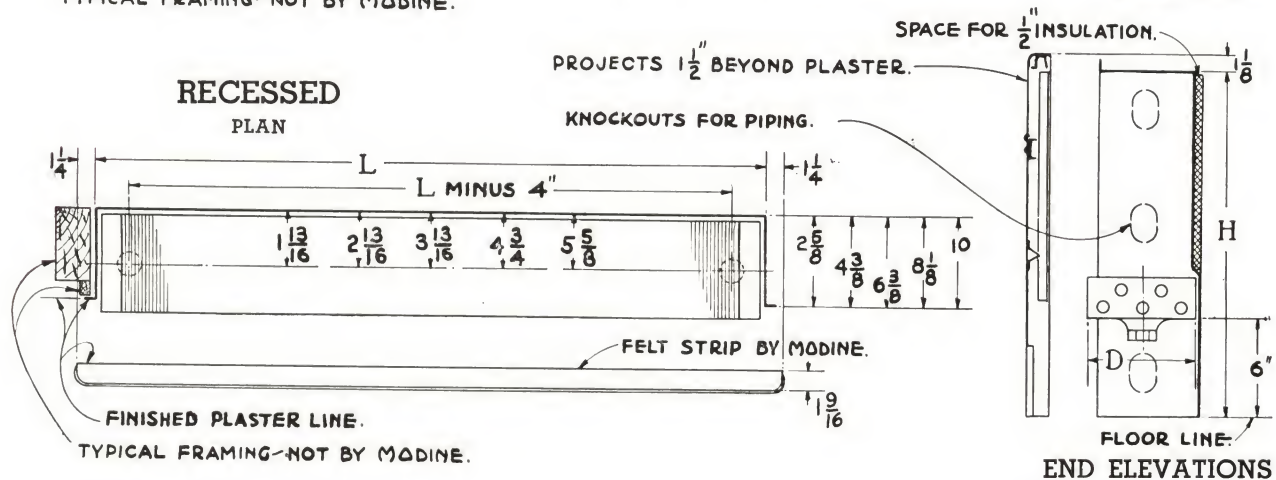
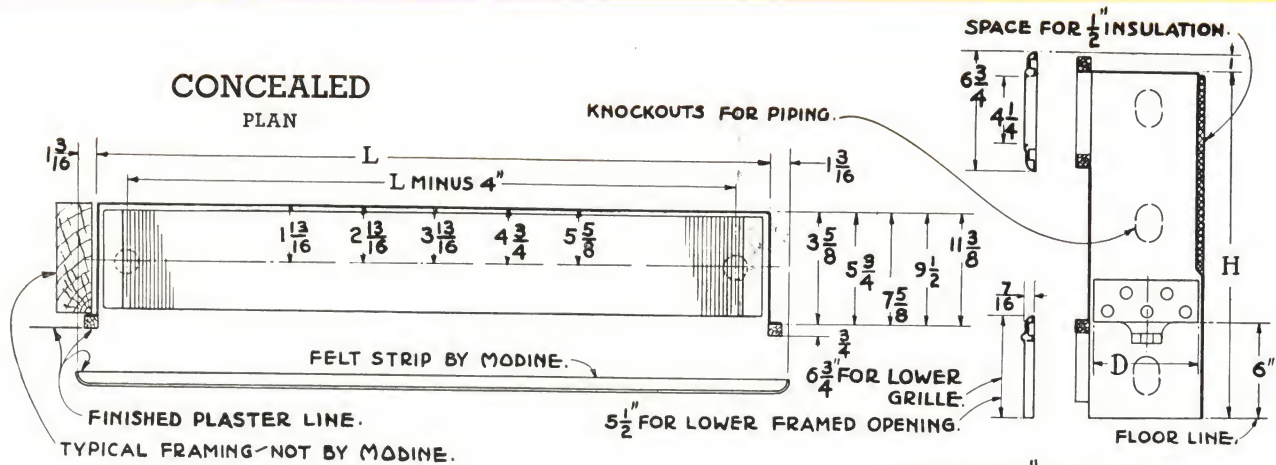
‡This depth not available in Concealed type. Heating Unit for Concealed type in this approximate depth is 3 3/8" deep.

*Capacities of Modine HOT WATER Convactor available on request.

MODINE STEAM CAPACITIES

INSTALLATION DIMENSIONS

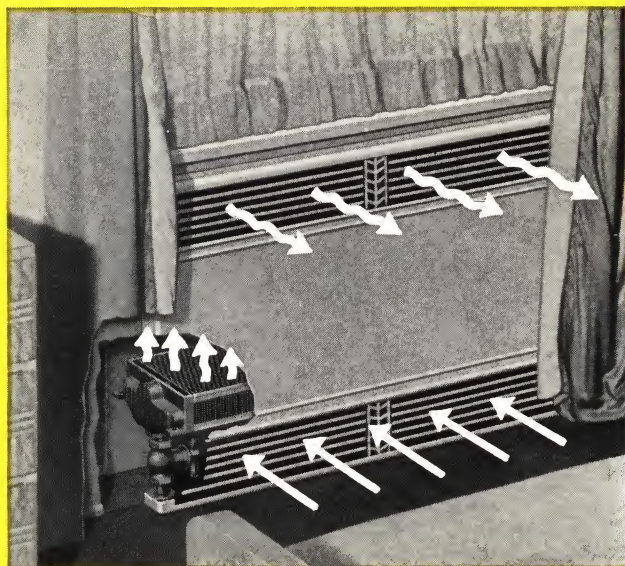
APPLY TO BOTH STEAM AND HOT WATER TYPE MODINE CONVECTORS



for BETTER HEATING and AIR CONDITIONING

... A SPLIT SYSTEM

using steam or hot water and
MODINE CONVECTORS



The cooler, heavier air near the floor comes in contact with the copper heating unit . . . is heated, and rises . . . then circulates out into room through grille.

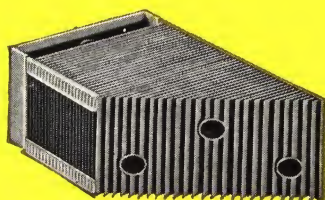
Steam
Heating Unit



Two Types

Modine copper heating units are made in two types . . . for steam or hot water . . . and are suitable for any kind of steam or hot water heating system.

Further information on the hot water type heating unit is available on request.



Cross-Sectional View of Steam Heating Unit

TAPPING SIZE SCHEDULE

Type of System	3 3/8 in.- 3 5/8 in. Depths			5 1/2 in. Depth			7 3/8 in. Depth			9 1/4 in. Depth			11 1/8 in. Depth		
	Supp.	Ret.	Vent.	Supp.	Ret.	Vent.	Supp.	Ret.	Vent.	Supp.	Ret.	Vent.	Supp.	Ret.	Vent.
2 Pipe Steam and Vapor	3/4 in.	1/2 in.		3/4 in.	1/2 in.		1 in.	1/2 in.		1 in.	1/2 in.		1 1/4 in.	1/2 in.	
1 Pipe Steam	1 1/4 in.		3/4 in.	1 1/4 in.		3/4 in.	1 1/2 in.		1 in.	1 1/2 in.		1 in.	1 1/2 in.		1 1/4 in.

● Today the architect-designed home is likely to be air conditioned. And, since the most important single function of air conditioning is heating—the superior flexibility of steam or hot water heating is essential to successful air conditioning. There is no better system of air conditioning and heating than a “split system”—heating part of the building by conditioned air and part by Modine Copper Convectors.

Extra Benefits of a “Split System”

“Split System” heating and air conditioning, using steam or hot water, gives these important advantages: (1) Permits such division between straight heating and air conditioning as best suits desire and pocketbook of owner; (2) Allows concentrating heat in bad exposure, as sunroom, with a convector or radiator supplementing conditioned air; (3) Allows use of convector in bathroom where forced air movement is objectionable; (4) Lets attached garage be heated without wasting conditioned air to out-of-doors; (5) Draws domestic hot water supply from single boiler, single burner; (6) Outwears any other system two to one; (7) Safer . . . more than just a single wall of metal restrains gases of combustion from entering the home.

Concealed Heaters Superior to Exposed Radiators

Convectors are the modern equivalent of radiators. Built into the wall, they occupy no floor space; may even be harmonized into the millwork of a room. Concealed Heaters impart a gentle air movement to room air. In “split system” heating they help distribute humidity from conditioned to non-conditioned rooms and help bridge periods of non-operation of the blower of the conditioner. Convectors respond more readily to automatic control.

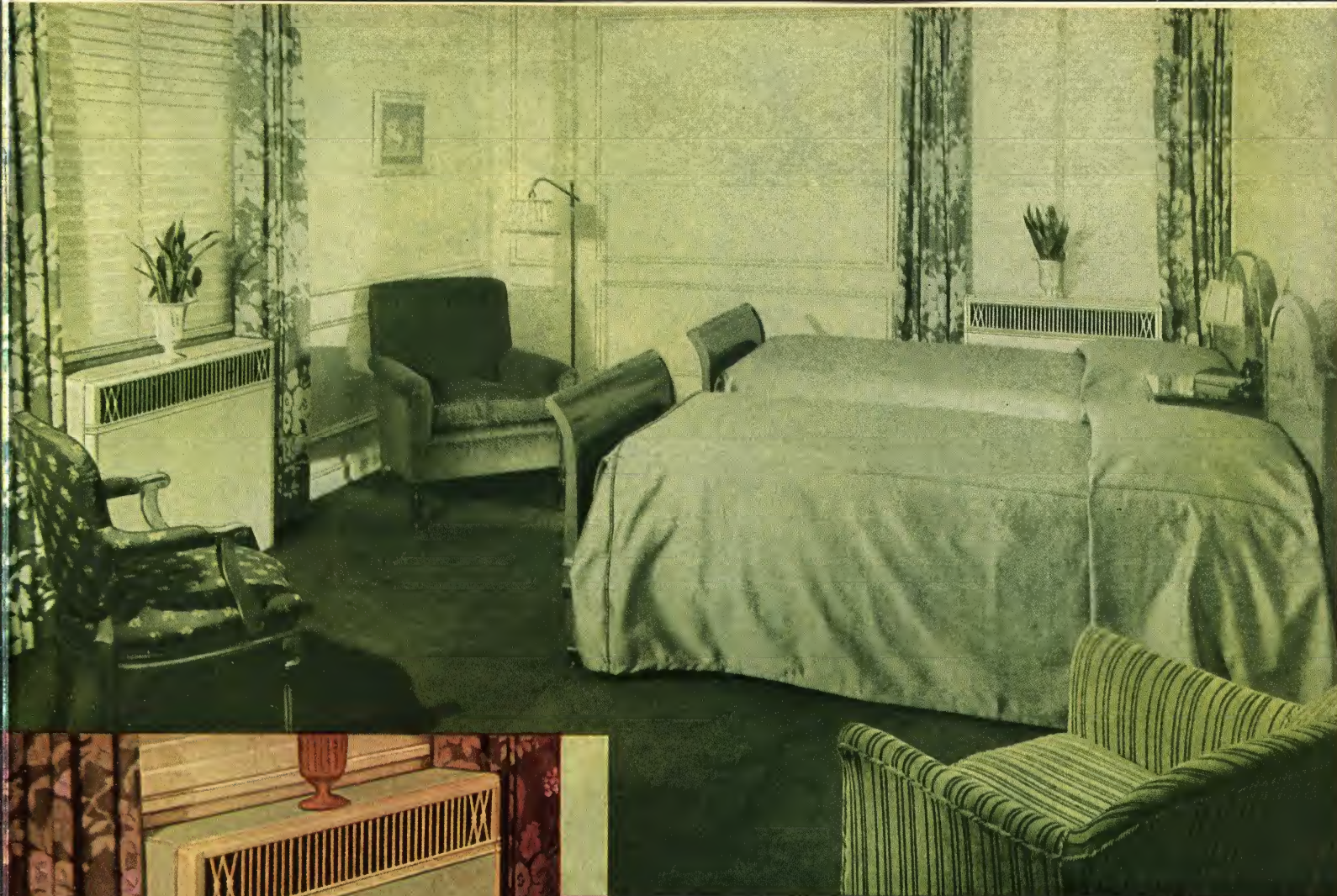
Why Modine Convectors are Copper

Modine Concealed Heaters are *copper* rather than cast iron. Copper is the natural metal for convector construction, inasmuch as convectors are extended surface heat transfer devices, wherein high heat conductivity for quick responsiveness, and smooth surfaces for avoidance of dirt collection are essential. *Copper convectors parallel the immediate responsiveness to today's marvelous thermostatic control devices, of an air conditioning system, closer than any other type of convector or radiator.*

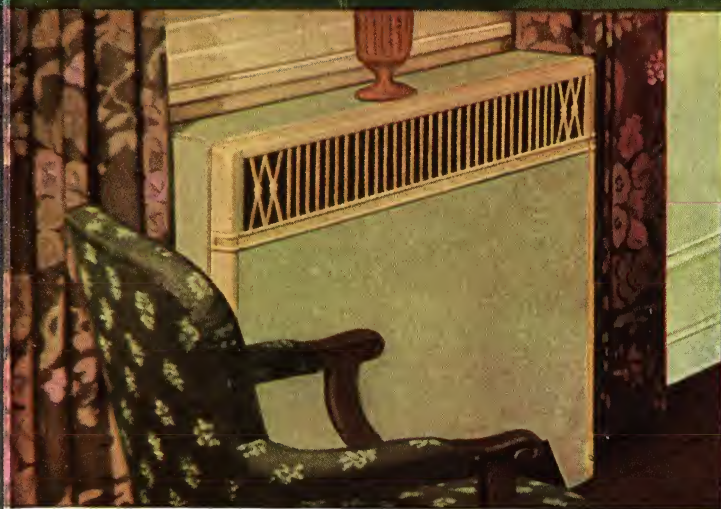
Copper convectors do not radiate heat through rear of enclosures to be wasted to the out-of-doors nor radiate heat through the front of enclosures to shrink and crack plaster and wood surfacing and framing. Copper, perfectly suited to long, slender forming, is more leak-proof, more enduring than cast iron. *Nearly six times as much copper convector capacity is in service in the United States as that of any other type of convector.*

Beauty Keeps Pace with Mechanical Excellence

Conservatively rated and soundly built . . . Modine Copper Convectors are the product of the extensive facilities, experience and organization of a pioneer manufacturer with a financial rating of over a million dollars. For years the standard of mechanical excellence and reliable performance . . . Modines are setting a new record for outstanding beauty in finished appearance.

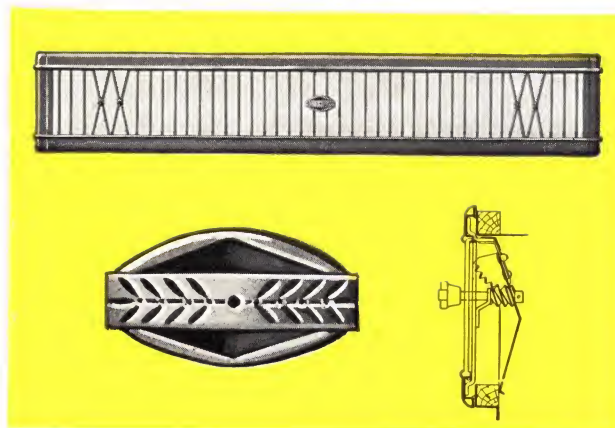


The graceful Regency Classic grille of this Floor Cabinet Convactor is adequately in keeping with the taste and originality displayed in decorations and furnishings of room.



The crisp ivory of the grille, rails and stiles enlivens the cool, green finish of completely exposed cabinet.

Partially recessed cabinet, with two grilles. Stiles only, in ivory, form chief decorative treatment.



Temperature Control by Means of a Damper

Where it is not desired to employ individual control valves, the heat output from a Modine Convactor may be controlled by means of a damper. The function of the Modine Damper is to regulate the amount of air passing through the heating unit, thus controlling the amount of heated air delivered. The Modine Damper is of the double-thread, worm and sector type and is controlled by the attractive, heat-resisting plastic knob illustrated above.

PIPING ARRANGEMENTS FOR MODINE CONVECTORS

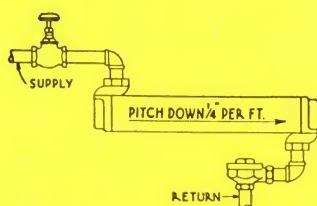
Illustrated below are some of the varied piping arrangements that can be worked out with Modine steam convectors. The heating units can be furnished with two bottom tapplings, one top and one bottom tapping at opposite ends, two end tapplings, or one end tapping in combination with either a top or bottom tapping at the opposite end. A schedule of tapping sizes, including air vent tapplings is given on page 10.



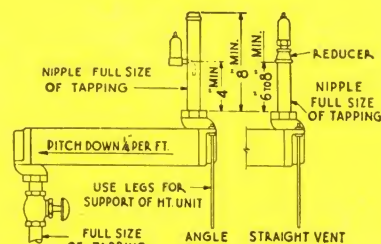
Two bottom tapplings:
two-pipe steam system.



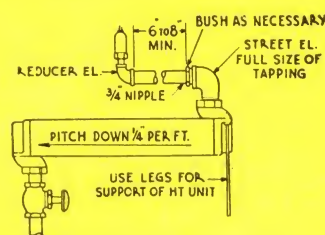
Two end tapplings:
two-pipe steam system.



One top, one bottom tapping:
two-pipe steam system.



*One-pipe steam system.



†One-pipe steam system.

*This venting arrangement provides sufficient air chamber where convector is over 24 inches in height.

†This venting arrangement recommended to give large air chamber on one-pipe steam or hot water convectors 24 inches or less in height.

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THE MODINE GUARANTEE

We warrant all Modine heating equipment to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good at our factory, any part or parts thereof which shall within one year from date of shipment from our factory be returned to our factory with transportation charges prepaid, and which our examination shall disclose to have been defective.

This warranty does not cover any labor charges for replacement of parts, adjustments, repairs, or any other work done. We assume no responsibility for consequential damages of any kind, and the purchaser or user, by acceptance of

this equipment, assumes the responsibility for the consequences of its use or misuse.

This warranty does not apply to any equipment which has been or may be repaired or altered in any way outside of our factory, so as, in our judgment, to affect its stability, nor to any equipment which has been subject to misuse, negligence, or operating conditions in excess of those stated in our catalog.

All steam ratings, both heat and air, are based on standard code of A.S.H. & V.E. and C.M.A.

MODINE MANUFACTURING COMPANY 1301 17TH STREET **RACINE, WIS.**
HEATING, COOLING AND AIR CONDITIONING EQUIPMENT FOR DOMESTIC, COMMERCIAL AND INDUSTRIAL APPLICATION